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**IN THE CLAIMS:**

Please replace the previous claims with the following claims:

1-30. (Canceled)

31. (currently amended) A cable headend for a television program delivery system which uses a plurality of video signals and instructions, and wherein set top terminals communicate with the cable headend, the cable headend comprising:

    a signal processor processing means for processing a plurality of video signals comprising:

        means for receiving a plurality of video signals;

        means for selecting video signals from the plurality of video signals; and

        combiner means for combining the selected video signals for distribution to set top terminals, wherein the combiner means comprises:

            a plurality of first-in-first-out storage means, each first-in-first-out storage means for storing packets from a single digital program and outputting the packets to an associated output means;

            a plurality of the associated output means connected to a serializing means;

            first-in-first-out control means for monitoring the number of video packets input to and output from each of the plurality of first-in-first-out storages, sending a control signal to a computer processing means when an individual first-in-first-out storage means is reaching capacity, and opening and closing the plurality of output means to maintain a constant output of the serializing means;

    a network controller for controlling the operation of the signal processor and the set top terminals comprising:

        means for obtaining communications from the set top terminals;

        [[a]] the computer processor processing means, connected to the obtaining means, for generating instructions to the signal processor using the communications from the set top terminals; and

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means for transferring the instructions to the signal processor processing means to be used for selecting video signals; and  
a means for distributing the combined video signals to the set top terminals.

32-46. (Cancelled)

47. (currently amended) A cable headend system, ~~for cherry picking desired digital programs or channels from one or more multiplexed signals comprising:~~

a CPU, wherein the CPU manages~~[[,]]~~ and monitors, ensures that the desired digital programs or channels are selected from at least one multiplexed signal, and sends instructions;

a demultiplexer, wherein the demultiplexer receives the at least one multiplexed signal~~[[s]]~~, performs selection of the desired programs or channels according to the instructions sent from the CPU, and outputs the selected programs or channels;

a combiner, wherein the combiner accepts the outputted selected programs or channels from the demultiplexer and combines the selected programs or channels into a combined signal for transmission according to instructions sent from the CPU, wherein the combiner comprises:

a plurality of first-in-first-out storages, each first-in-first-out storage storing packets from a single digital program and outputting the packets to an associated output gate;

a plurality of the associated output gates connected to a serializer; first-in-first-out control logic for monitoring the number of video packets input to and output from each of the plurality of first-in-first-out storages, sending a control signal to the CPU when an individual first-in-first-out storage is reaching capacity, and opening and closing the plurality of output gates to maintain a constant output of the serializer; and

wherein the CPU manages and monitors the demultiplexer and the combiner.

48. (currently amended) The system of claim 47, wherein the demultiplexer separates the multiplexed signals into individual digital programs or channels.

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49. (currently amended) The system of claim 47 further comprising a local insertion device, wherein the local insertion device receives ~~one or more~~ at least one local program[[s]] and outputs the at least one ~~one or more~~ local program[[s]] to the combiner, and wherein the combiner combines the output local program[[s]] with the selected programs ~~or channels~~.

50-66. (cancelled)

67. (currently amended) A method, ~~for cherry picking desired digital programs or channels from one or more multiplexed signals~~ comprising the steps of:

receiving information and at least one ~~one or more~~ multiplexed signal[[s]] containing a plurality of digital programs ~~or channels~~, wherein the information includes data on identities of the desired digital programs ~~or channels~~;

generating instructions regarding the desired digital programs ~~or channels~~, wherein the instructions are generated using the received information;

selecting the desired digital programs ~~or channels~~ using the generated instructions, wherein the selected digital programs ~~or channels~~ are a subset of the plurality of digital programs ~~or channels~~ contained in the at least one multiplexed signal[[s]]; and

combining the selected digital programs ~~or channels~~ into a combined signal for transmission, wherein the combining comprises:

for each selected digital program, storing packets from the selected digital program in one of a plurality of first-in-first-out storages and outputting the packets from the first-in-first-out storage to an associated output gate connected to a serializer;

using control logic for monitoring the number of video packets input to and output from each of the plurality of first-in-first-out storages, sending a control signal to a processor when an individual first-in-first-out storage is reaching capacity, and opening and closing the plurality of output gates to maintain a constant output of the serializer.

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68. (currently amended) The method of claim 67, further comprising the step of demultiplexing the multiplexed signals into individual digital programs or channels.

69. (currently amended) The method of claim 67 further comprising the step of: inserting one or more at least one local program[[s]], wherein the local program[[s]] are is combined with the selected digital programs or channels in the combining step.

70. (currently amended) A method for ~~filtering unwanted digital programs or channels from one or more multiplexed signals~~, comprising the steps of:  
receiving information and one or more at least one multiplexed signal[[s]] containing a plurality of digital programs or channels, wherein the information includes data on identities of the digital programs or channels;  
generating instructions regarding the digital programs or channels, wherein the instructions are based on the received information;  
removing unwanted digital programs or channels using the generated instructions, wherein the unwanted digital programs or channels are a subset of the plurality of digital programs or channels contained in the at least one multiplexed signal[[s]] and whereby removing the unwanted digital programs or channels leaves the remaining plurality of digital programs or channels contained in the multiplexed signal; and  
combining the remaining plurality of digital programs or channels into a combined signal for transmission, wherein the combining comprises:

for each remaining digital program, storing packets from the remaining digital program in one of a plurality of first-in-first-out storages and outputting the packets from the first-in-first-out storage to an associated output gate connected to a serializer;

using control logic for monitoring the number of video packets input to and output from each of the plurality of first-in-first-out storages, sending a control signal to a processor when an individual first-in-first-out storage is reaching capacity, and opening and closing the plurality of output gates to maintain a constant output of the

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serializer.

71. (currently amended) The method of claim 70, further comprising the step of demultiplexing the at least one multiplexed signal[[s]] into individual digital programs ~~or channels~~.

72. (currently amended) The method of claim 70 wherein the information received includes identities of the unwanted digital programs ~~or channels~~.

73. (currently amended) The method of claim 70 wherein the generated instructions comprise identities of the unwanted digital programs ~~or channels~~ and whereby the removing step uses the generated instructions to remove the unwanted digital programs ~~or channels~~.

74. (currently amended) A method, ~~for cherry picking desired digital programs or channels from a multiplexed signal~~ comprising the steps of:

receiving information and a multiplexed signal containing a plurality of digital programs ~~or channels~~, wherein the information includes data on identities of the desired digital programs ~~or channels~~;

generating instructions regarding the desired digital programs ~~or channels~~, wherein the instructions are generated using the received information;

selecting the desired digital programs ~~or channels~~ using the generated instructions, wherein the selected digital programs or channels are a subset of the plurality of digital programs ~~or channels~~ contained in the multiplexed signal; and

combining the selected digital programs ~~or channels~~ into a combined signal for transmission, wherein the combining comprises:

for each selected digital program, storing packets from the selected digital program in one of a plurality of first-in-first-out storages and outputting the packets from the first-in-first-out storage to an associated output gate connected to a serializer;

using control logic for monitoring the number of video packets input to and output from each of the plurality of first-in-first-out storages, sending a control signal to

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a processor when an individual first-in-first-out storage is reaching capacity, and opening and closing the plurality of output gates to maintain a constant output of the serializer.

75. (currently amended) The method of claim 74 wherein the combining step comprises a serializer combining the selected digital programs or channels into a combined signal for transmission.

76. (currently amended) The method of claim 74 wherein the selecting step comprises digital logic selecting the desired digital programs or channels using the generated instructions.

77. (currently amended) A method, for cherry picking desired digital programs or channels from a multiplexed signal comprising the steps of:

receiving information and a plurality of multiplexed signals, each multiplexed signal containing a plurality of digital programs or channels, wherein the information includes data on identities of the desired digital programs or channels;

generating instructions regarding the desired digital programs or channels, wherein the instructions are generated using the received information;

selecting the desired digital programs or channels using the generated instructions, wherein the selected digital programs or channels are a subset of the plurality of digital programs or channels contained in the multiplexed signals; and

combining the selected digital programs or channels into a combined signal for transmission, wherein the combining comprises:

for each selected digital program, storing packets from the selected digital program in one of a plurality of first-in-first-out storages and outputting the packets from the first-in-first-out storage to an associated output gate connected to a serializer;

using control logic for monitoring the number of video packets input to and output from each of the plurality of first-in-first-out storages, sending a control signal to a processor when an individual first-in-first-out storage is reaching capacity, and opening and closing the plurality of output gates to maintain a constant output of the

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serializer.

78. (currently amended) The method of claim 77 wherein the combining step comprises a serializer combining the selected digital programs or channels into a combined signal for transmission.

79. (currently amended) The method of claim 77 wherein the selecting step comprises digital logic selecting the desired digital programs or channels using the generated instructions.